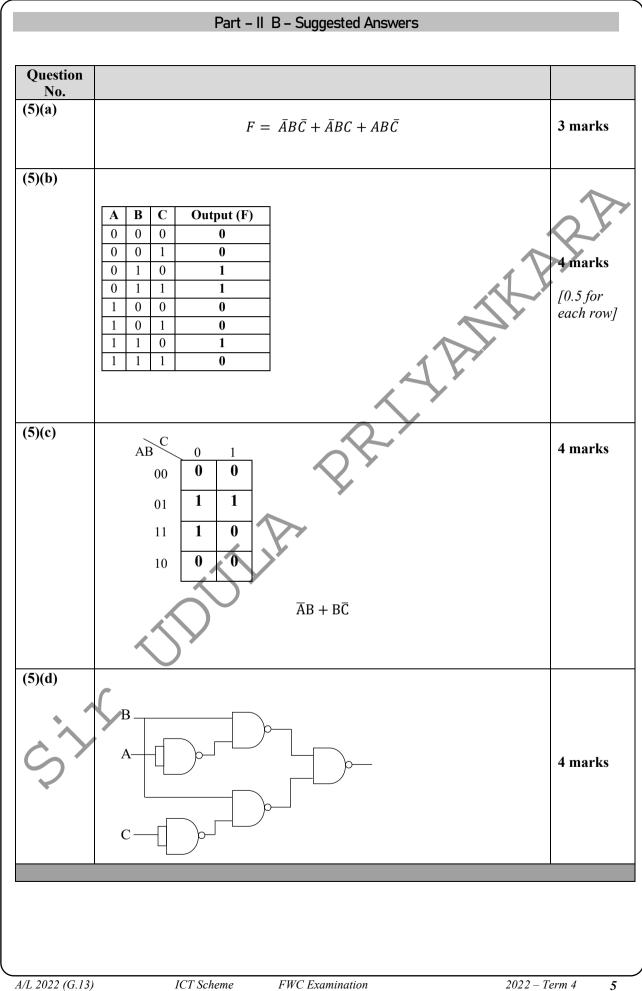


			i di t	Jugg	ested Answ				
(1)	5	(11)	3	(21)	2	(31)	2	(41)	4
(2)	3	(12)	5	(22)	3	(32)	1	(42)	2
(3)	3	(13)	1	(23)	4	(33)	2	(43)	3
(4)	2	(14)	4	(24)	4	(34)	2	(44)	1
(5)	5	(15)	3	(25)	5	(35)	5	(45)	3
(6)	4	(16)	3	(26)	5	(36)	5	(46)	1
(7)	5	(17)	1	(27)	1	(37)	5	(47)	2
(8)	5	(18)	3	(28)	1	(38)	2	(48)	1
(9)	3	(19)	5	(29)	3	(39)	4	(49)	3
(10)	2	(20)	1	(30)	2	(40)	5	(50)	3
			Part –	II A – Sug	gested Ans	wers			
						Y			
Question No.					35				Marks
(1)(a)(i)	CREATE TABLE Persons(PersonID VARCHAR(6) PRIMARY KEY, FirstName VARCHAR(20), LastName VARCHAR(20), City VARCHAR(15));							2 marks	
(1)(a)(ii)								1 marks	
(1)(a)(iii)									
		PersonID		Name	City				1 marks
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•		1005	V 11	.11411	Jaiina				
(1)(b)(i)	• Reduces redundant data.								2 marks
Provides data consistency within the database.									
	•								
	•								
		• Better and quicker execution.							
	•	Better and	Greater overall database organization.						
~		Greater ov		-	nization. h as insert / (

(1)(b)(ii)	It is in 1NF. Because it contains partial functional dependencies (DepartmentNo → Department, EmployeeNo → EmployeeName)	2 marks [1+1]
(1)(b)(iii)	2NF Employee (<u>EmployeeNo</u> , DepartmentNo, EmployeeName) Department (<u>DepartmentNo</u> , Department)	2 marks [1+1]
(2)(a)(i)	24	2 marks
(2)(a)(ii)	It multiplies all the integers up to user input $(4x3x2x1=24)$. Or It gives the factorial value of the input value.	2 marks
(2)(b)	Input L, B $P = 2 \times (L+B)$ A = L*B Display P, A	4 marks [1 for each]
(2)(c)	Variables are used to store data in programming.	2 marks
(3)(a)	 (i) Slotted ALOHA (ii) Bandwidth (iii) Amplitude modulation (iv) Parity bit (v) Pure ALOHA (vi) Circuit switching 	3 marks [0.5 for each]
(3)(b)	 (i) Cloud computing (ii) Infrastructure as a service-IaaS (iii) Platform as a service-PaaS (iv) Software as a service-SaaS (v) Stealing / phishing (vi) Plagiarism 	3 marks [0.5 for each]

	$ \begin{array}{c} 1 - 2 \\ 2 - 4 \\ 3 - 3 \\ 4 - 1 \end{array} $	4 marks [1 for each]
(4)(a)(i)	 Ready Running Blocked Swapped out and waiting 	4 marks [1 for each]
(4)(a)(ii)	 Timeout Process reaching the maximum allowable time for uninterrupted execution / Process timeout. OS assigns higher levels of priority process. OS decides to let another task runs. 	2 marks [1+1]
(4)(a)(iii)	I/O wait Waiting for resources such as input / output.	2 marks [1+1]
(4) (b)	 Linked allocation has excess pointer overheads / memory required to store the pointers <u>or</u> (4 x 124 bytes = 496 bytes needed for total blocks, but additional 4 bytes is needed for pointer. 	2 marks
Ś		



(6)						Table
	Departments	Network	Broadcast	Subnet mask	Usable IP address	8 marks
	Departments	address	address	Sublict mask	range	
	Information	195.4.3.0	195.4.3.15	255.255.255.240	195.4.3.1-195.4.3.14	Each row –
	Systems					2 marks
	Sales	195.4.3.16	195.4.3.47	255.255.255.224	195.4.3.17-195.4.3.46	
		195.4.3.48	195.4.3.63	255 255 255 270	195.4.3.49-195.4.3.62	
	Finance	195.4.3.48	195.4.5.65	255.255.255.240	195.4.3.49-195.4.3.62	
	Marketing	195.4.3.64	195.4.3.79	255.255.255.40	195.4.3.65-195.4.3.78	
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	0.5+0.5 marks					
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	0.5 marks for r	-				
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